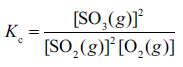
**Equilibrium constant expression**

**1)** The *K*c for a reaction is below, write the chemical equation that corresponds to this expression.

****

**2) Write the equilibrium constant expression for each reaction**

|  |  |
| --- | --- |
| PCl5(*g*) ⇄ PCl3(*g*) + Cl2(*g*) |  |
| 2SO2(*g*) + O2(*g*) ⇄ 2SO3(*g*) |  |
| CO(*g*) + 2H2(*g*) ⇄ CH3OH(*g*) |  |
| H2(*g*) + I2(*g*) ⇄ 2HI(*g*) |  |
| 2NO(*g*) + O2(*g*) ⇄ 2NO2(*g*) |  |
| N2(g) + O2(g) ⇄ 2NO(g) |  |
| 2O3(g) ⇄ 3O2(g) |  |
| 3H2(*g*) + N2(*g*) ⇄ 2NH3(*g*) |  |
| Ag+(*aq*) + 2NH3(*aq*) ⇄ Ag(NH3)2+(*aq*) |  |
| 2NO2(*g*) ⇄ 2NO(*g*) + O2(*g*) |  |
| 2N2O5(*g*) ⇄ 4NO2(*g*) + O2(*g*) |  |
| Fe3+ (*aq*) + SCN– (*aq*) ⇄ FeSCN2+ (*aq*) |  |

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